

Korean Patent No. 125,188

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5. Patentee: LG Electro Components Co., Ltd.
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7. Title of Invention: ELECTRIC TOOTHBRUSH

8. Claims:

- (1) Claim 1 An electric toothbrush comprising:

a toothbrush body(10);
a driving motor(21) disposed within the toothbrush body;
a bevel gear(22) rotated by the driving motor;
a first and a second eccentric cams(23, 24) fixed to a rotating axis of the bevel gear(22) to rotate with the bevel gear and having a diameter different from each other;
a first cam follower(25) vertically movable by the first eccentric cam(23);
a second cam follower(26) horizontally movable by the second eccentric cam(24);
an axis connection(27) integrated with the first and the second cam followers(25, 26);
an axis(28) extending from the axis connection(27), wherein the diameter of the second eccentric cam(24) is greater than that of the first eccentric cam(23) and a horizontal movement amount made by the second cam follower(26) is greater than a vertical movement amount made by the first cam follower(25) to thereby drive the axis(28) in an elliptic manner; and
a brush head portion(30) inserted into the axis(28) to extend from the toothbrush body and oscillated by the driving mechanism.

- (2) Claims 2 to 8 (not translated into English)